Bi-weekly US ATLAS Computing Facilities Performance Review & other comments

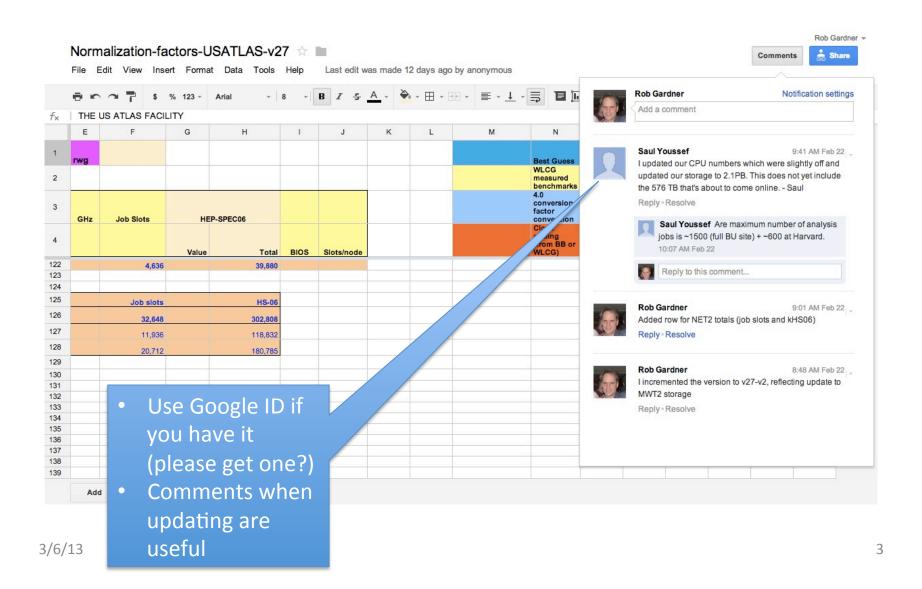
Rob Gardner
US ATLAS Computing Integration and Operations Meeting
March 6, 2013

Very brief this week

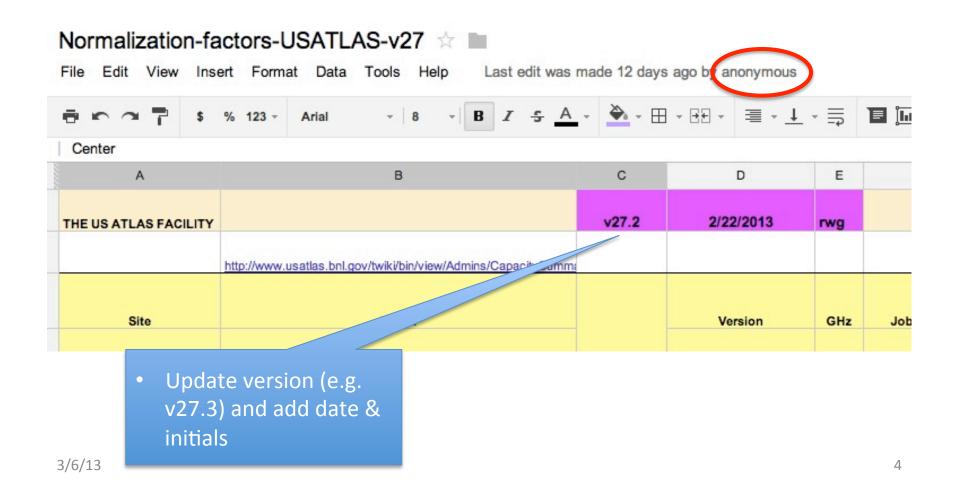
- Facilities capacity updating
- Storage capacity report
- CPU-hours delivered
- Analysis availability
- Total throughput
- US ATLAS Computing Facilities meeting in Indianapolis

Spreadsheet at v27.2

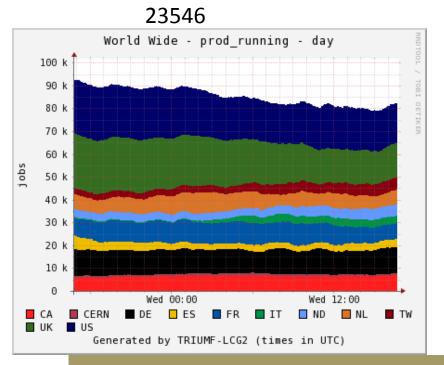
Updates to https://www.usatlas.bnl.gov/twiki/bin/view/Admins/CapacitySummary

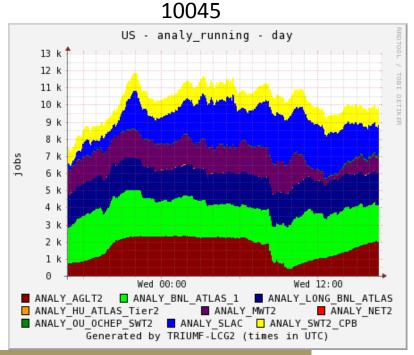


A little annotation helps



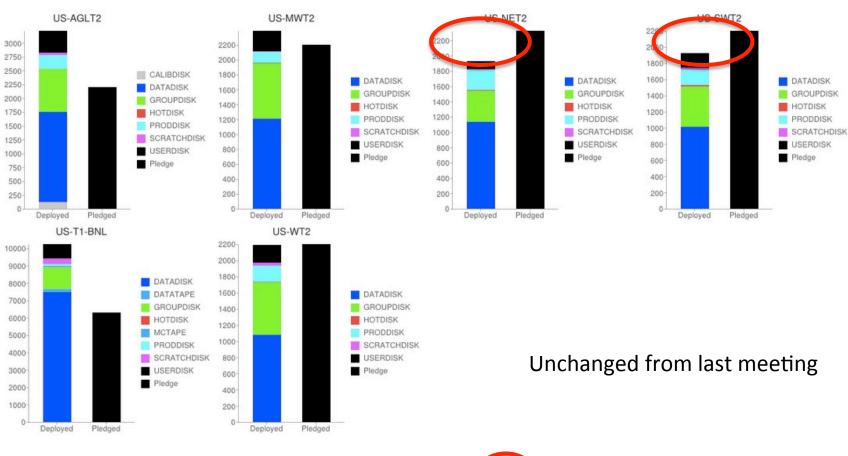
Center	Job Slots	ANALY slots
T1	11,936	8952
NET2	3,364	2100
SWT2	4,636	3477
MWT2	5,996	4497
AGLT2	4,340	3255
WT2	2,760	2070
Facility Total	33,032	24774
Tier2 Total	21,096	15822





Delivering more than installed capacity; ~ ½ available analysis slots

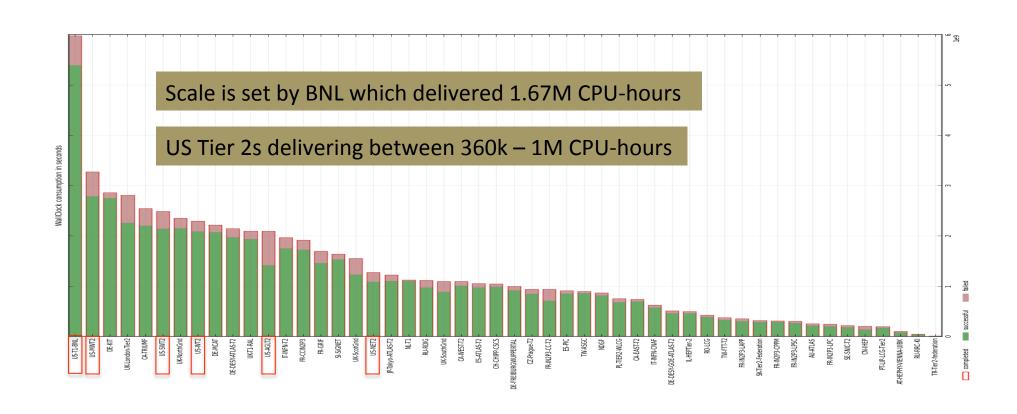
Reported storage capacity



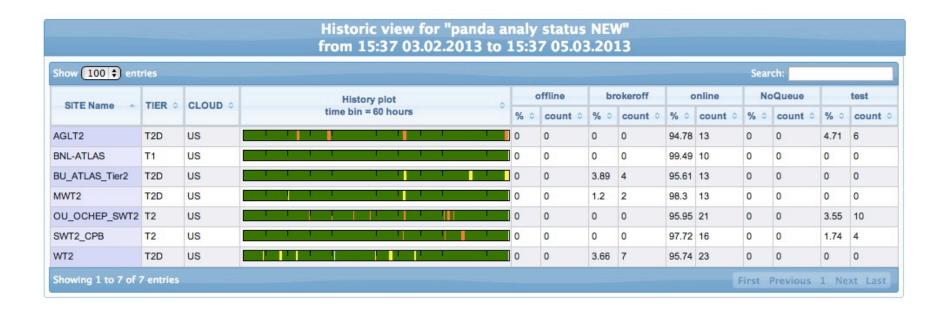
'S gone next meeting?

6

Wall time delivered by federation (last week)

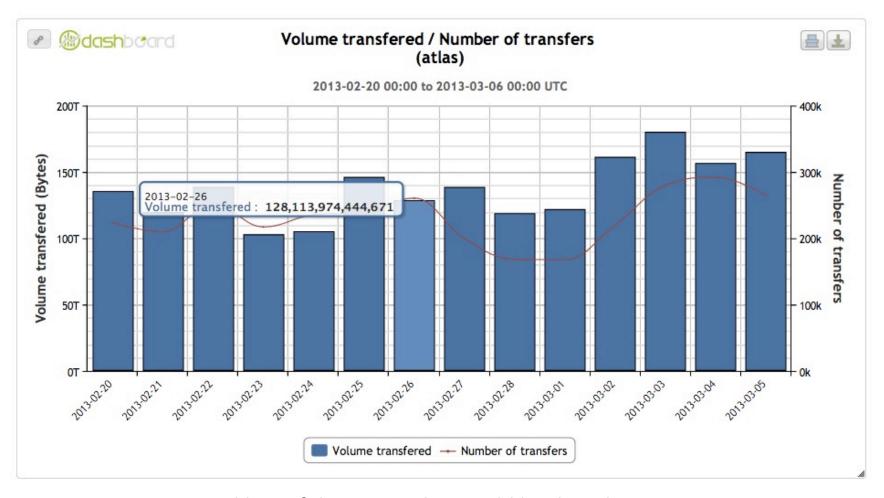


Analysis availability



No significant problems

Total data transferred from US sources



Lots and lots of deeper studies could be done here. Good to note the scale at least... bit of an uptick this week.

https://indico.fnal.gov/conferenceDisplay.py?confld=5610

OSG All Hands

chaired by Robert Quick (Indiana University), Fredrick Luehring (Indiana University)

from Monday 11 March 2013 at **08:00** to Thursday 14 March 2013 at **18:00** (US/Central) at Indianapolis

Manage -

Description All times listed are local to the conference venue which is in the Eastern US Timezone (EST).

Support goc@opensciencegrid.org

09:45 - 10:30 ATLAS Tier 2/3 Workshop: IT-167

Convener: Robert Gardner (University of Chicago)

09:45 What's next for the US ATLAS Computing Facility 20'

Speaker: Robert Gardner (University of Chicago)

10:05 Cloud activities at BNL 20'

Speaker: John Hover (Brookhaven National Laboratory)

10:30 - 11:00 Morning Break

11:00 - 12:30 ATLAS Tier 2/3 Workshop

Convener: Robert Gardner (University of Chicago)

11:00 Out of the basement, into the cloud: virtualizing the Tier 3 20'

Speaker: Lincoln Byrant (University of Chicago)

11:20 Elastic Colony Manager: Reactive Capacity Growth for Virtual Clusters 10'

Speaker: David Champion (University of Chicago)

11:30 ATLAS and the PKI transition 15'

Speaker: John Hover (Brookhaven National Laboratory)

11:45 US ATLAS Networking Open Discussion 20'

Speaker: Shawn McKee (Univ. of Michigan)

14:00 - 15:30	Joint /	ATLAS/CMS Workshop	
	Conver	ners: Ken Bloom (University of Nebraska-Lincoln), Robert Gardner (University of Chicago), Rob Snihur (UNL/FNAL)	
	14:00	Future Directions 30' Speaker: Ian Fisk (Fermilab)	
	14:30	Any Data, Anytime, Anywhere 20' Speaker: Dan Bradley (University of Wisconsin)	
	14:50	Federating ATLAS Storage using Xrootd 20' Speaker: Robert Gardner (University of Chicago)	
	15:10	Operational issues supporting federated storage services and OSG 20' Speakers: Brian Bockelman (University of Nebraska-Lincoln), Robert Gardner (University of Chicago)	
15:30 - 15:55	Coffee	Coffee Break	
15:55 - 16:30	Joint ATLAS/CMS Workshop: IT-152		
	Conver	ners: Ken Bloom (University of Nebraska-Lincoln), Robert Gardner (University of Chicago), Rob Snihur (UNL/FNAL)	
	15:55	Networking Potpourri 20' Speaker: Jason Zurawski (Internet2)	
	16:15	LHCONE and US LHC computing facilities 15' Speaker: Shawn McKee (Univ. of Michigan)	
16:30 - 17:30	WLCG and EGI Interoperations		
	Contributors from EGI and WLCG talk about interoperability.		
	Convener: Rob Quick (Indiana University)		
	16:30	Update on WLCG Operations Coordination and Commissioning Team 20' Speaker: Maria Girone (CERN - WLCG Operatins)	
	16:50	WLCG Service Availability Monitoring (SAM) 20' Speaker: David Collados (CERN - WLCG Monitoring)	
	17:10	EGI Operations and Interoperability with OSG 20' Speaker: Peter Solagna (EGI - Operations Manager)	

Conclusions

- Did not look closely at throughput
- Otherwise the facility is delivering nicely
- Last month end of FY13Q2
 - So good to start thinking about updates to <u>https://www.usatlas.bnl.gov/twiki/bin/view/Admins/SiteCertificationP24</u>
- Starting to curate links here, for future use in meetings
 - https://www.usatlas.bnl.gov/twiki/bin/view/Admins/ PerformanceDashboard
- In today's meeting we've noted a number of group tasks/issues that have facility-wide impacts:
 - SL6, OSG wn + DQ2, OASIS, OSG opp. access, PandaMover deprec., virtualizing Tier2s for Tier3s, LHCONE, etc..
- See some of you in Indianapolis!